FIG.1

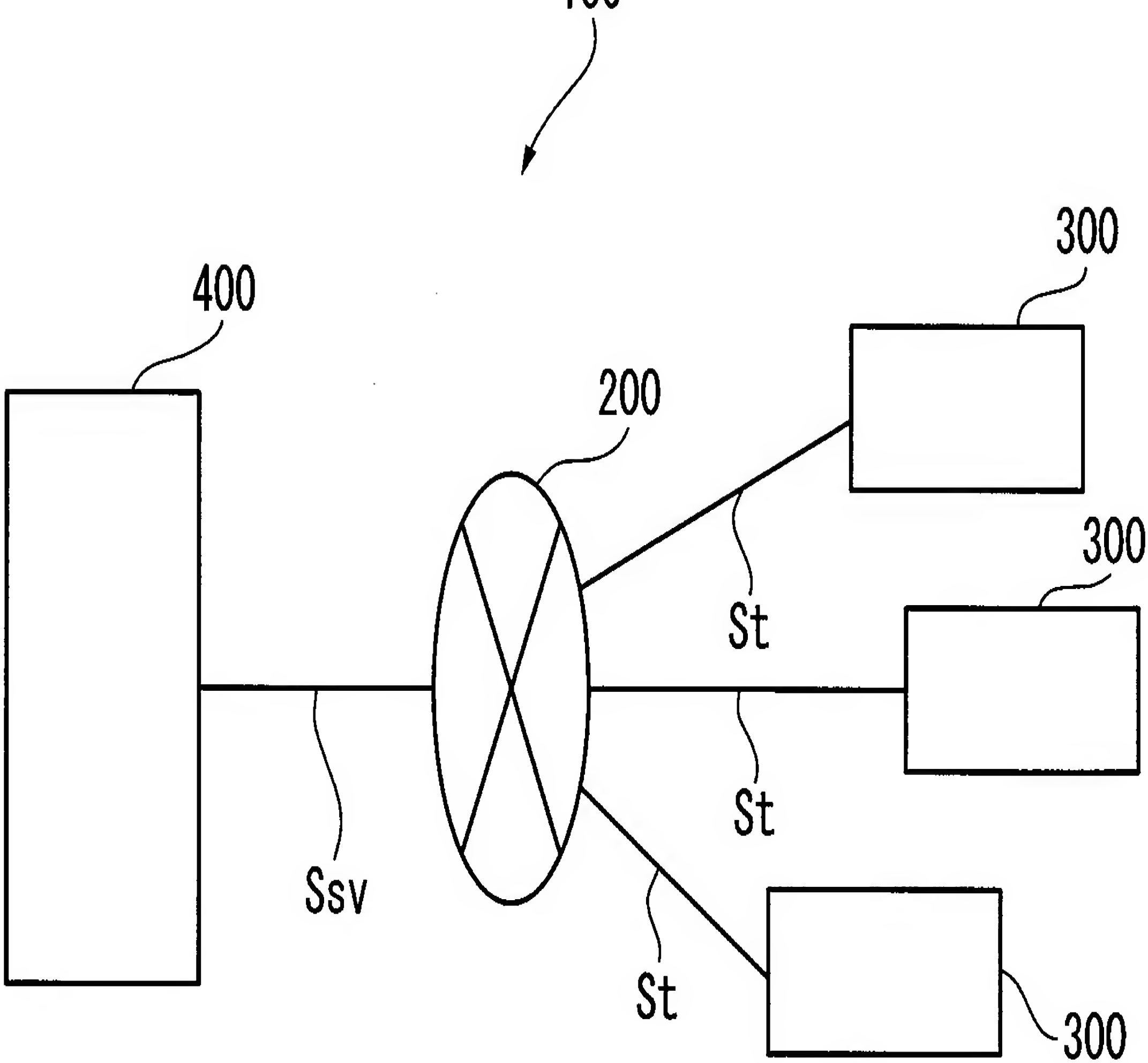

FIG.2

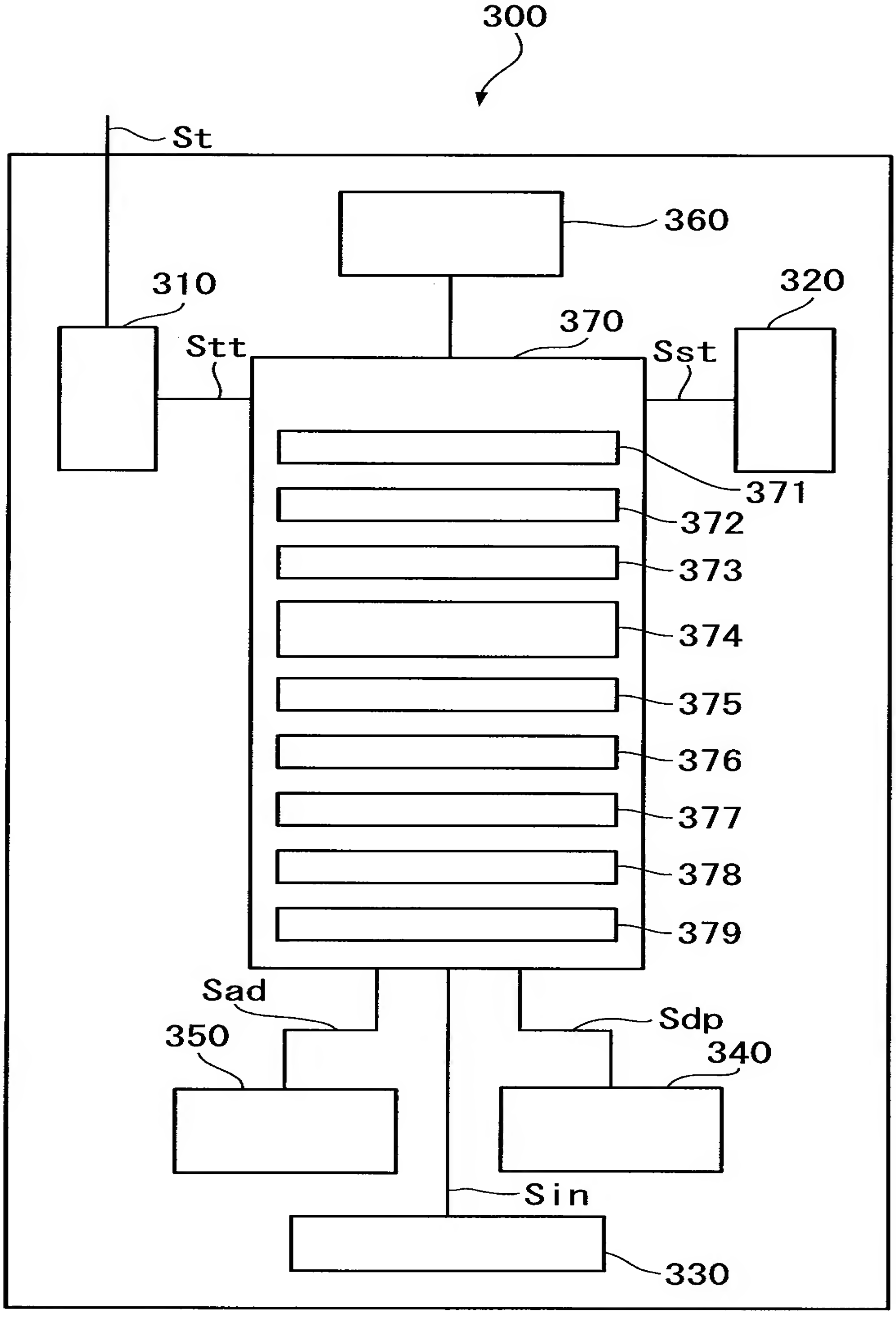
300
St
360
310
320
370
Stt
Sst
371
372
373
374
375
376
377
378
379
Sad
Sdp
350
340
Sin
330

FIG.3

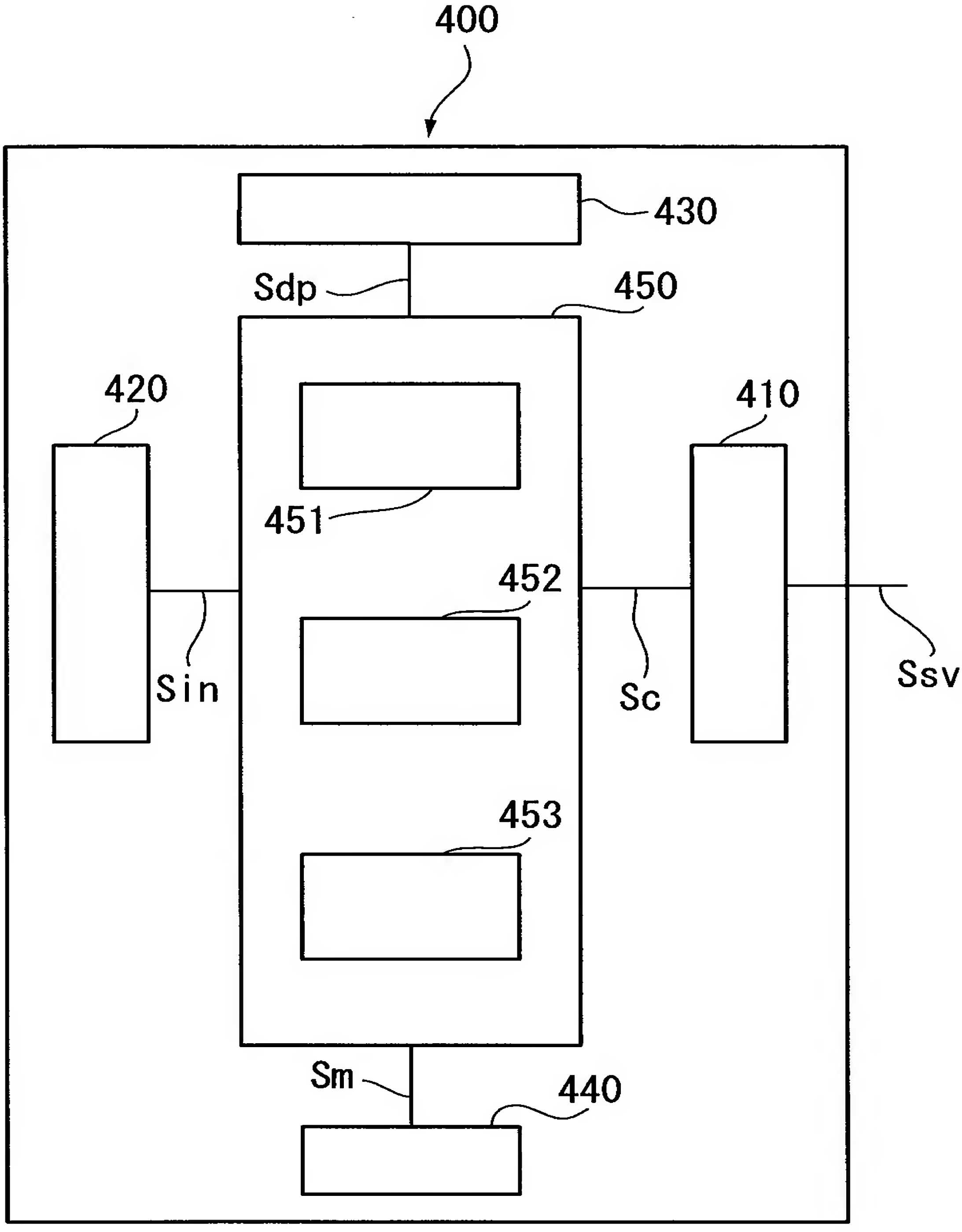

FIG.4

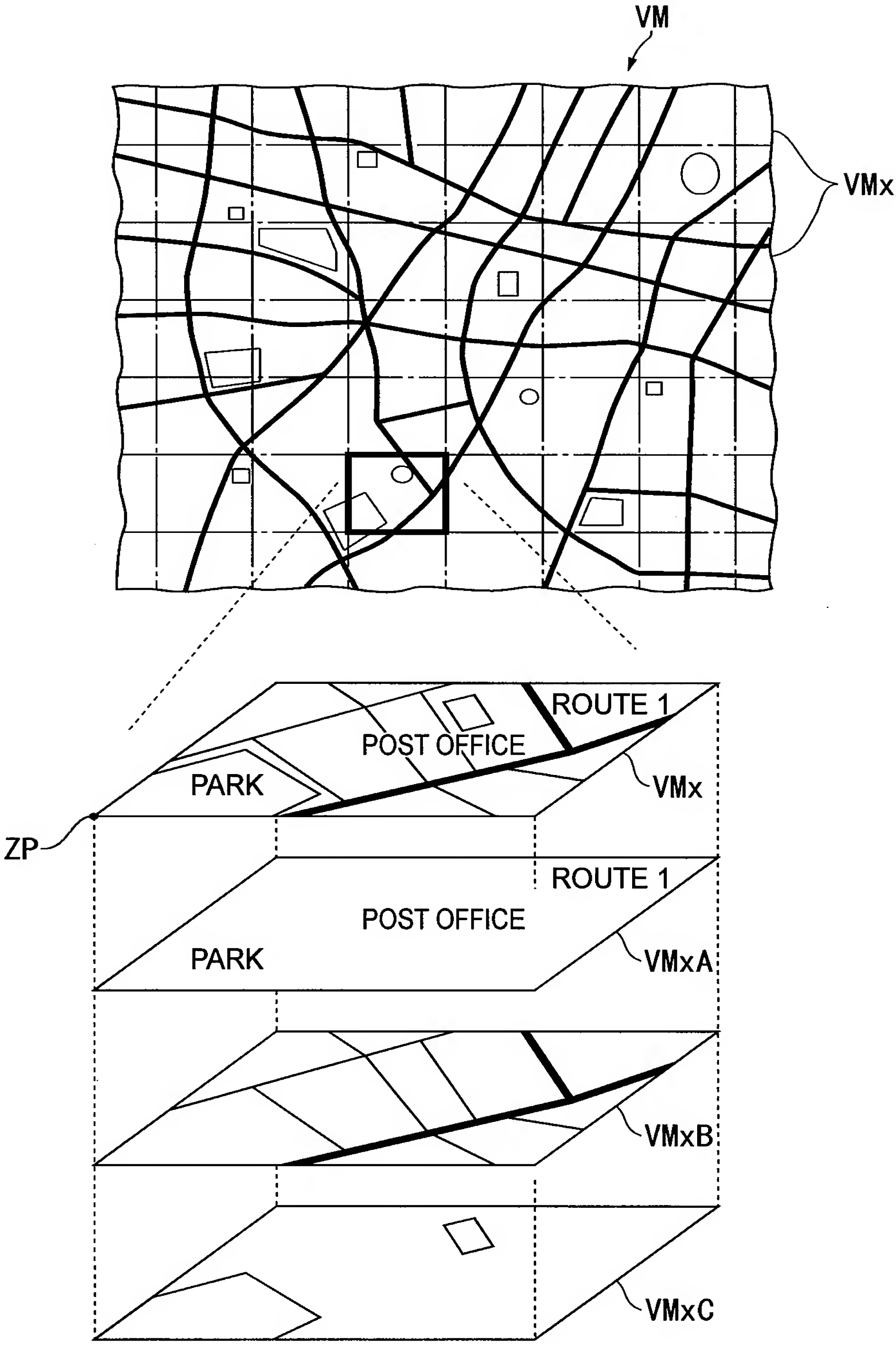
VM
VMx
ROUTE 1
POST OFFICE
PARK
VMx
ZP
ROUTE 1
POST OFFICE
PARK
VMxA
VMxB
VMxC

FIG. 5

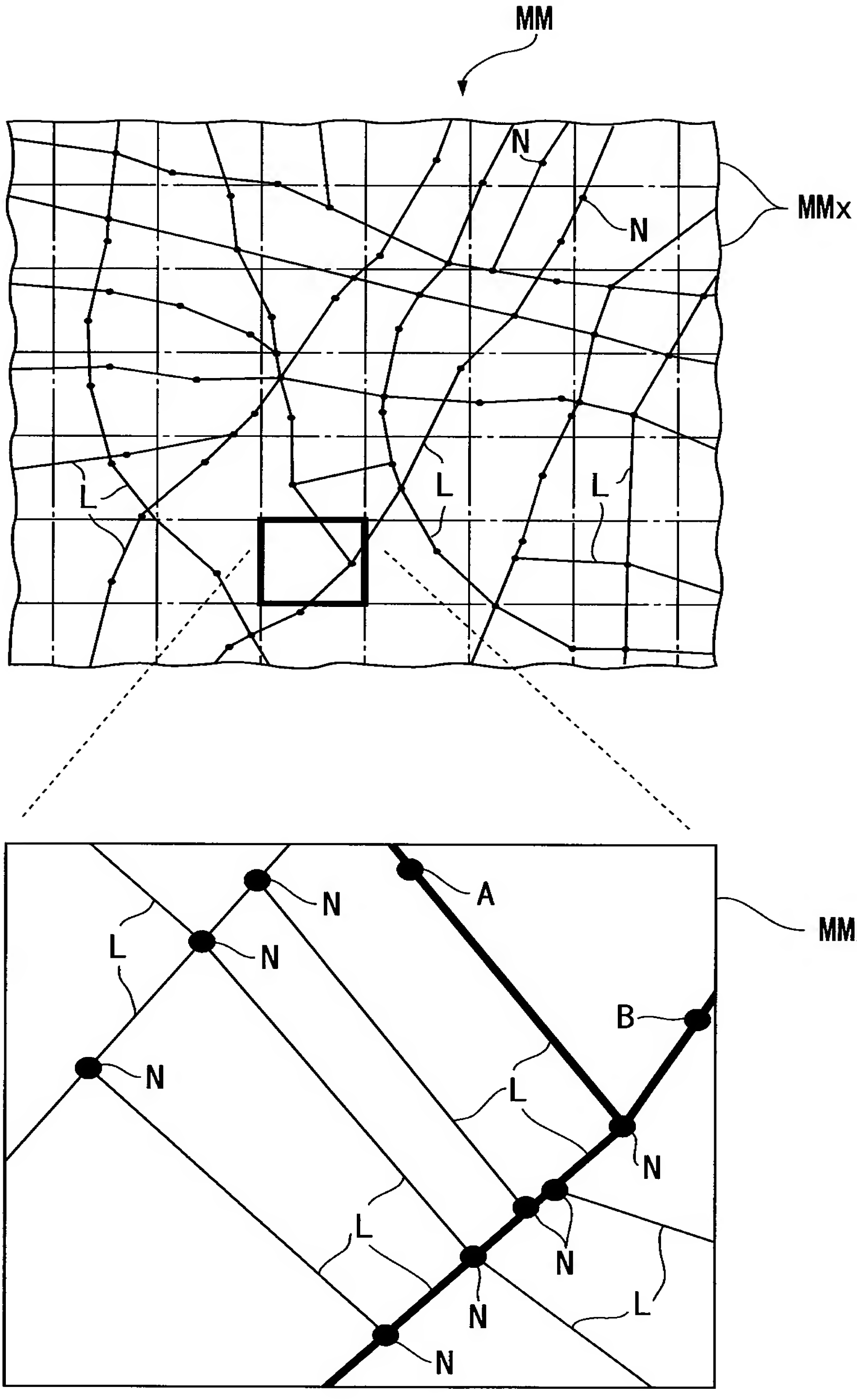

FIG. 6

TRAFFIC CONTROLS · LINK ATTRIBUTE (1)	bit7	bit6	bit5	DESCRIPTION
	0	0	0	RESERVE
	0	0	1	TWO-WAY MAIN ROAD
	0	1	0	TWO-WAY FEEDER ROAD
	0	1	1	TWO-WAY SIDE ROAD
	1	0	0	ONE-WAY MAIN ROAD
	1	0	1	ONE-WAY FEEDER ROAD
	1	1	0	ONE-WAY SIDE ROAD
	1	1	1	ROAD CLOSED
DEFAULT ROAD WIDTH	bit4	DESCRIPTION		
	0	UNDER 5.5M		
	1	5.5M OR MORE		
LINK TYPE	bit3	bit2	bit1	bit0	DESCRIPTION
	0	0	1	0	NATIONAL ROAD
	0	0	1	1	MAJOR REGIONAL ROAD
	0	1	0	0	STATE ROAD
	0	1	0	1	PUBLIC ROAD
	0	1	1	0	MINOR STREET
	0	1	1	1	MINOR STREET 2
	1	0	0	0	INTERCITY HIGHWAY
	1	0	0	1	URBAN HIGHWAY
	1	0	1	0	TOLL NATIONAL ROAD
	1	0	1	1	TOLL MAJOR REGIONAL ROAD
	1	1	0	0	TOLL STATE ROAD
	1	1	0	1	OTHER TOLL ROAD
	1	1	1	0	ROAD EXCEPT FERRY ROUTE
	1	1	1	1	FERRY ROUTE

FIG.7

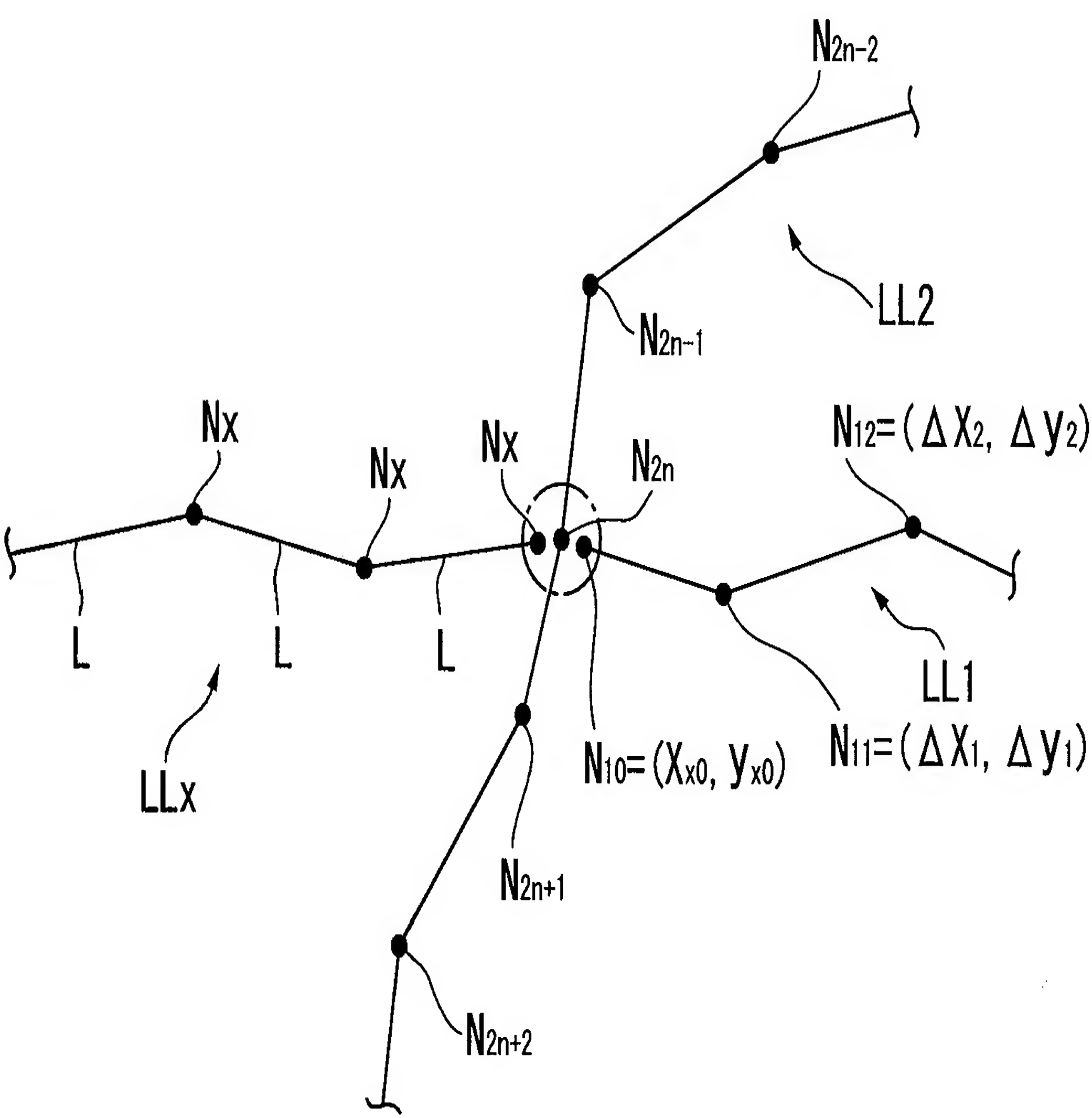
N2n-2
LL2
N2n-1
Nx
Nx
Nx
N2n
N12=(ΔX2, Δy2)
L
L
L
LL1
LLx
N10=(Xx0, yx0)
N11=(ΔX1, Δy1)
N2n+1
N2n+2

FIG. 8

	NODE FLAG	bit15	DESCRIPTION
Nxn		0	NOT IDENTICAL
		1	IDENTICAL
	X-COORDINATE OFFSET		
	Y-COORDINATE OFFSET		
Nxn+1			

FIG.9

	VERSION INFO	DESCRIPTION
VMx1	Ver 5.0	VERSION OF DISPLAY MESH INFO VMx1
VMx2	Ver 5.0	VERSION OF DISPLAY MESH INFO VMx2
⋮		
MMx1	Ver 5.0	VERSION OF MATCHING MESH INFO MMx1
MMx2	Ver 4.5	VERSION OF MATCHING MESH INFO MMx2

FIG. 10

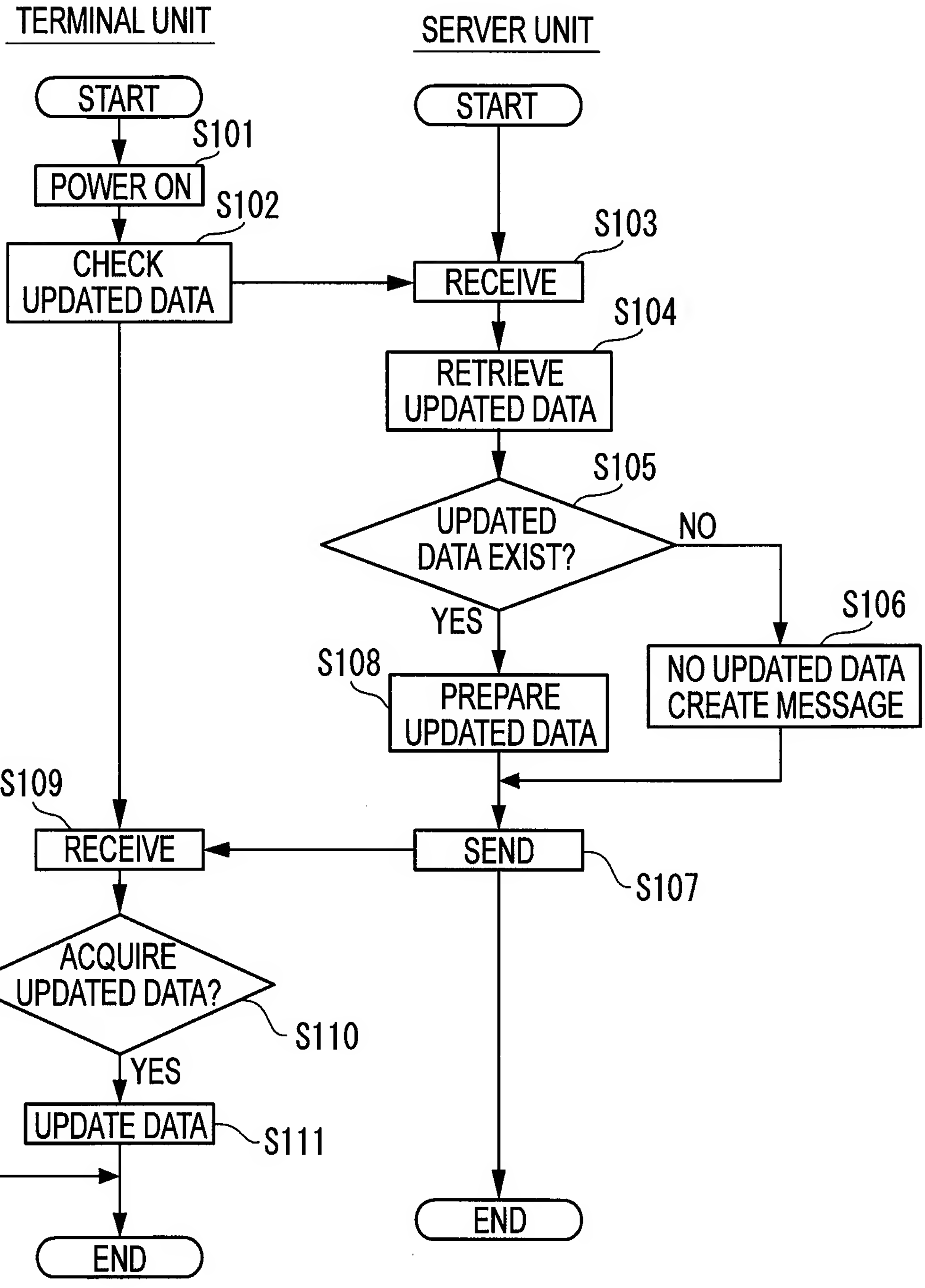
TERMINAL UNIT
SERVER UNIT
START
START
S101
POWER ON
S102
CHECK UPDATED DATA
S103
RECEIVE
S104
RETRIEVE UPDATED DATA
S105
UPDATED DATA EXIST?
NO
YES
S106
NO UPDATED DATA CREATE MESSAGE
S108
PREPARE UPDATED DATA
S109
RECEIVE
SEND
S107
NO
ACQUIRE UPDATED DATA?
S110
YES
UPDATE DATA
S111
END
END

FIG.11A

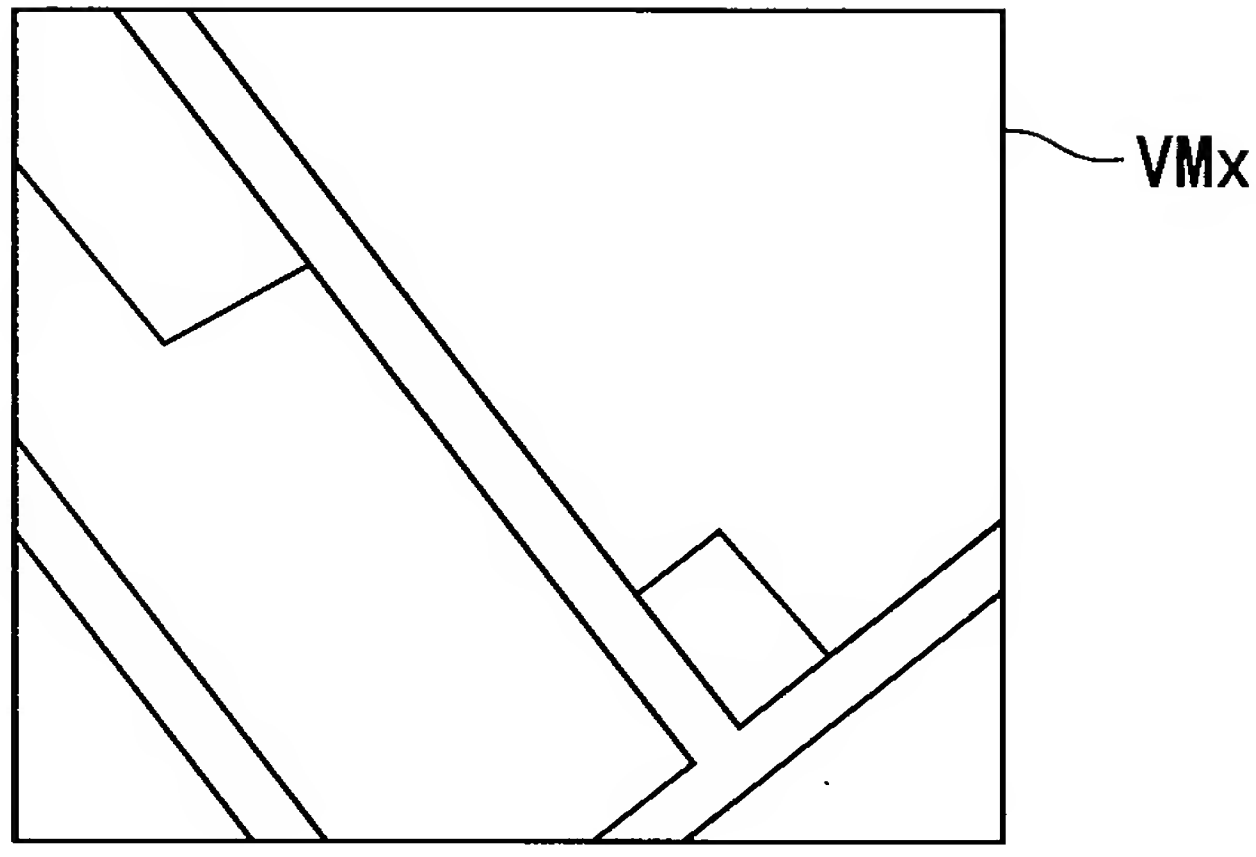

FIG.11B

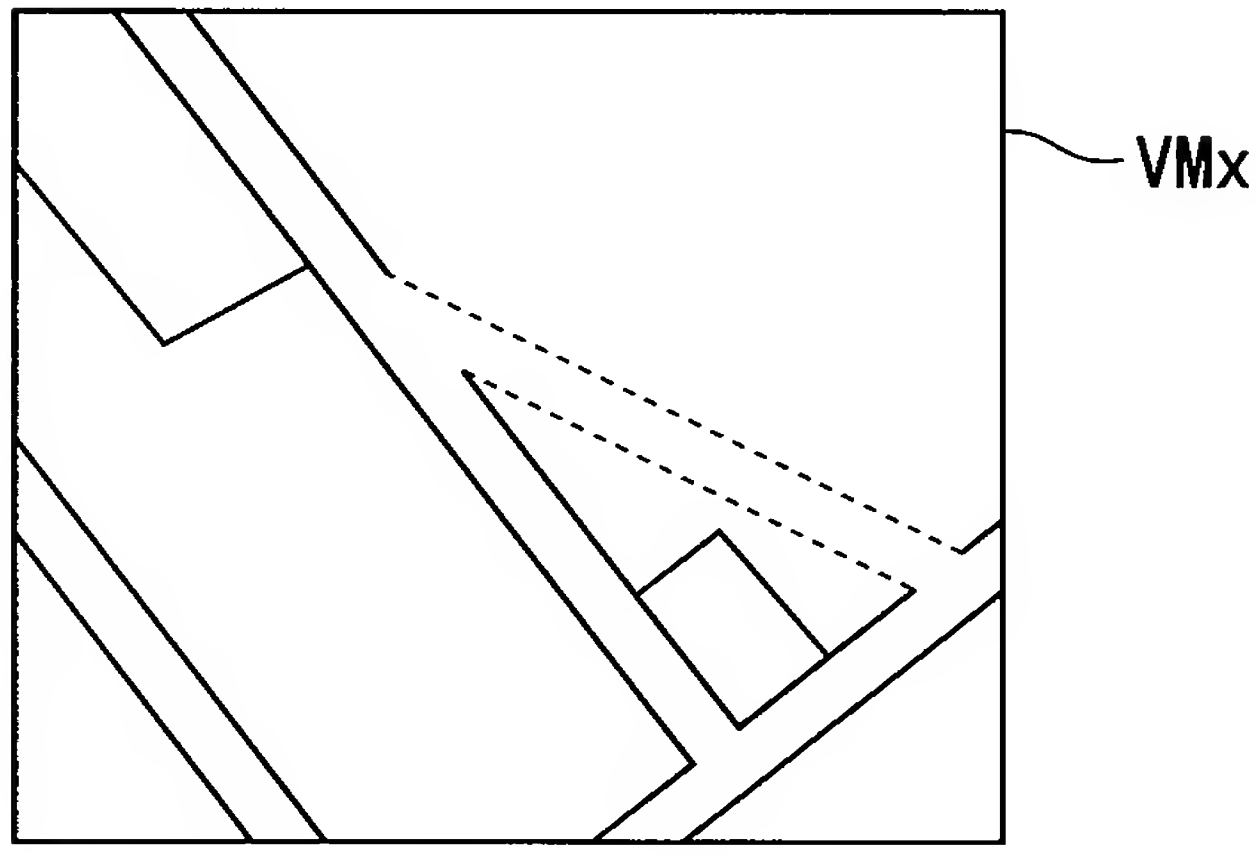

FIG.11C

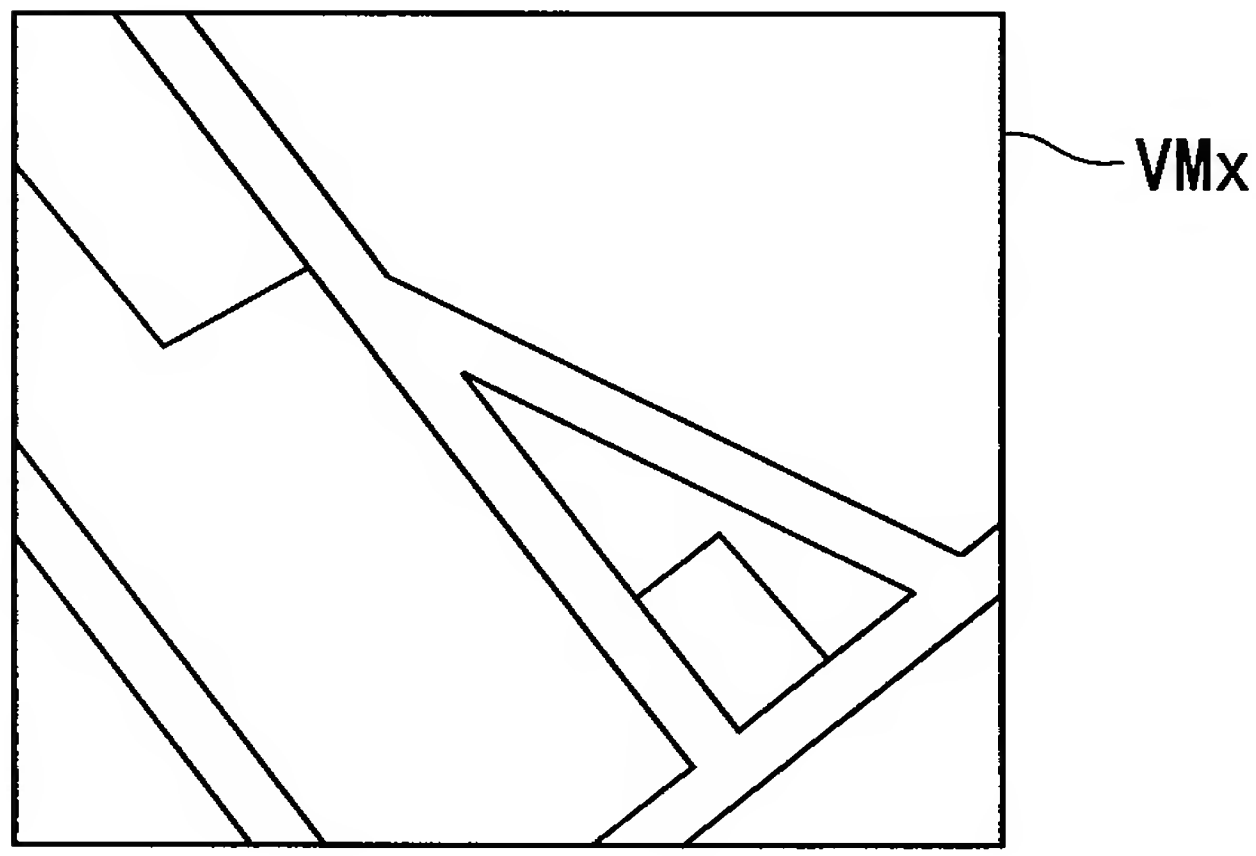

FIG. 12

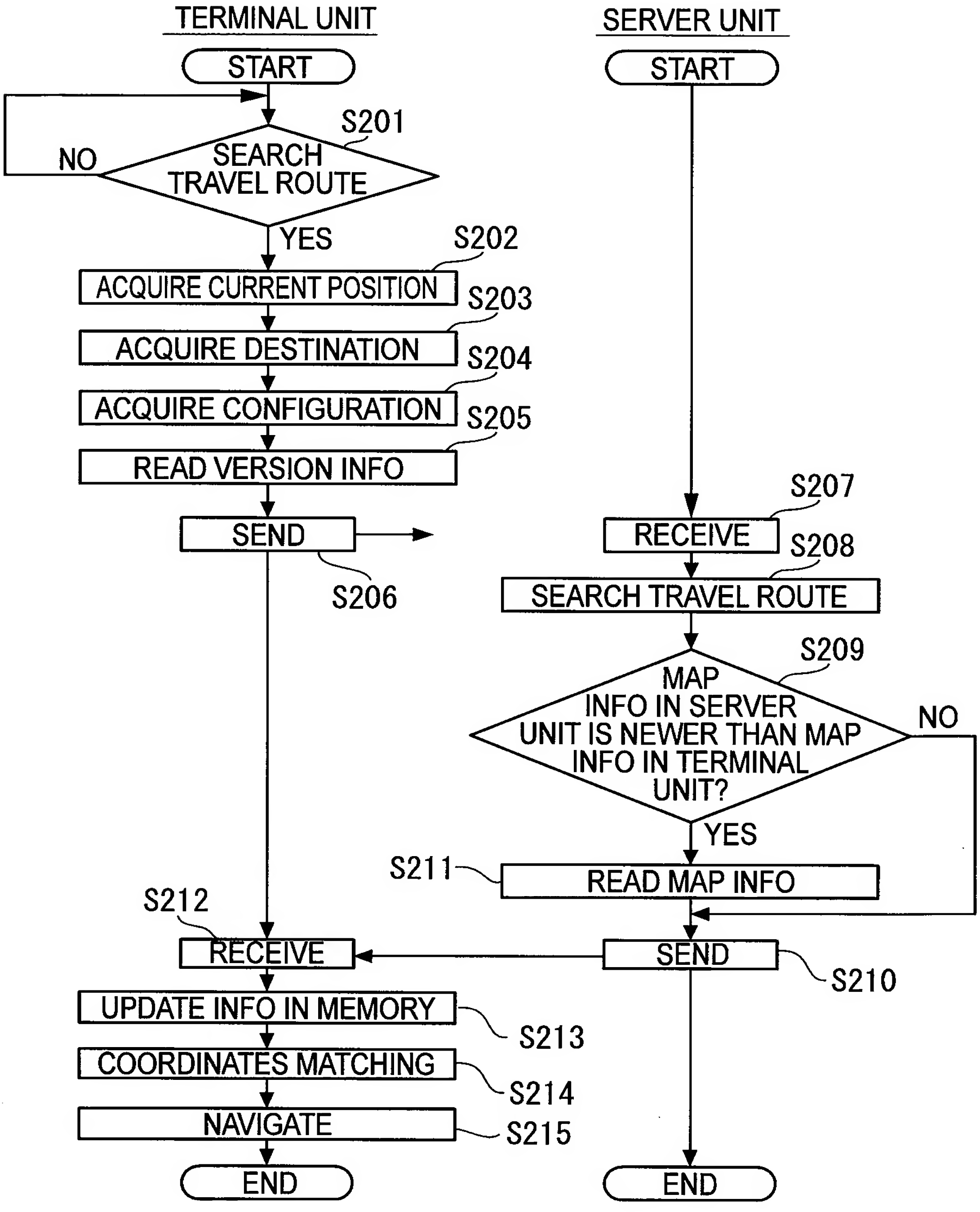
TERMINAL UNIT
START
S201
SEARCH TRAVEL ROUTE
NO
YES
S202
ACQUIRE CURRENT POSITION
S203
ACQUIRE DESTINATION
S204
ACQUIRE CONFIGURATION
S205
READ VERSION INFO
SEND
S206
S212
RECEIVE
UPDATE INFO IN MEMORY
S213
COORDINATES MATCHING
S214
NAVIGATE
S215
END
SERVER UNIT
START
S207
RECEIVE
S208
SEARCH TRAVEL ROUTE
S209
MAP INFO IN SERVER UNIT IS NEWER THAN MAP INFO IN TERMINAL UNIT?
NO
YES
S211
READ MAP INFO
SEND
S210
END

FIG.13A

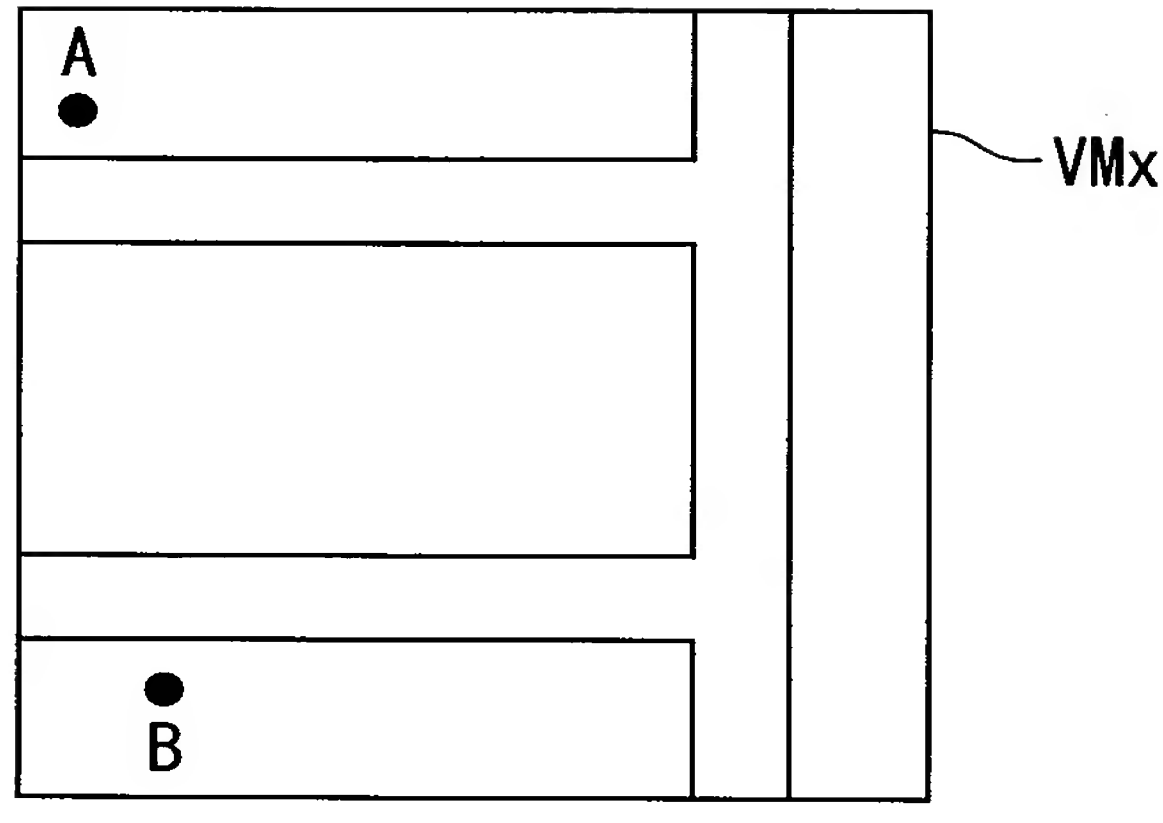

FIG.13B

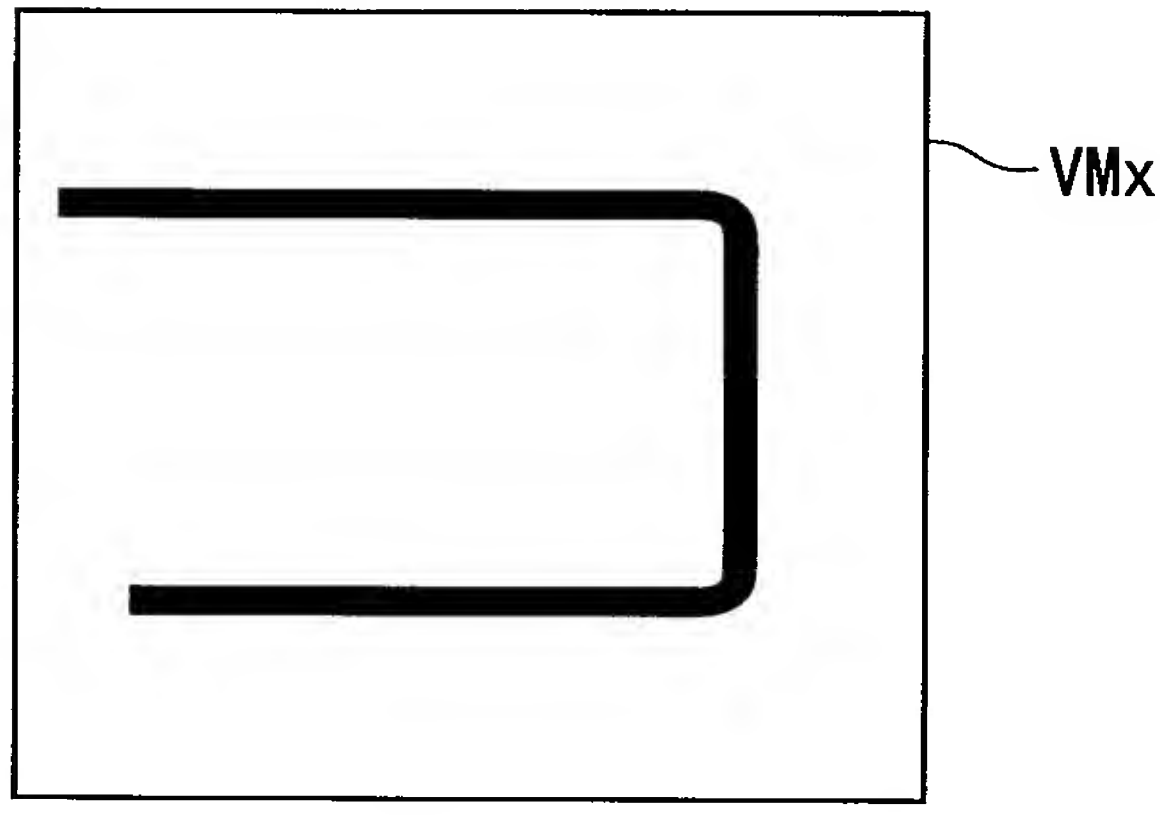

FIG.13C

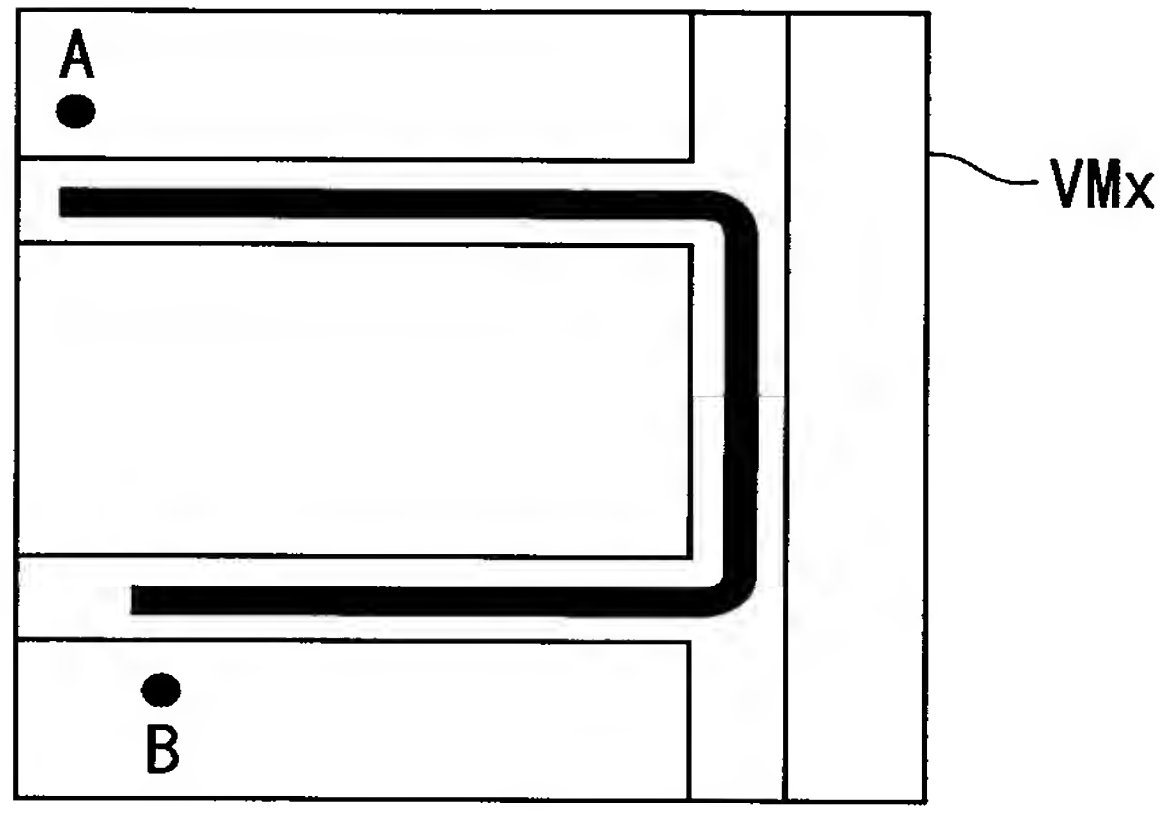

FIG.14A

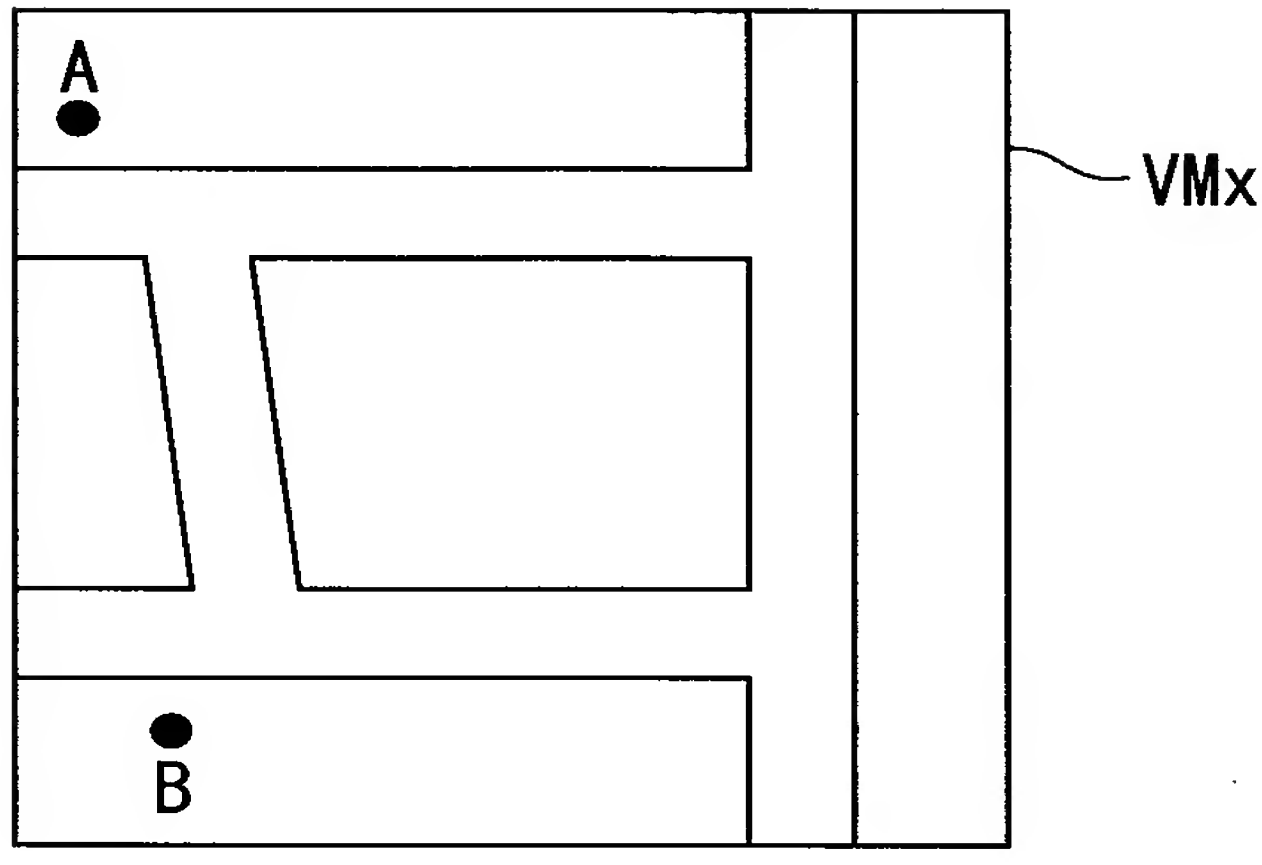

FIG.14B

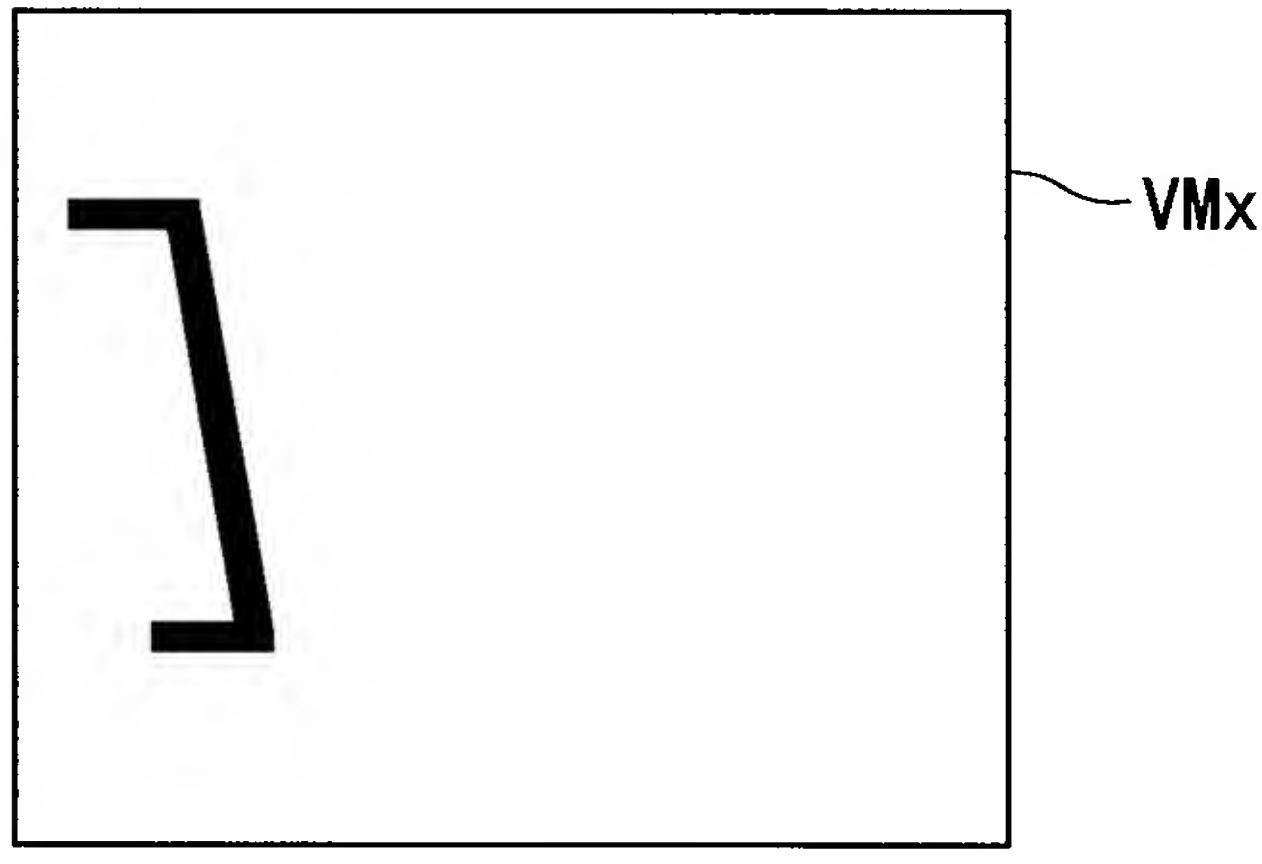

FIG.14C

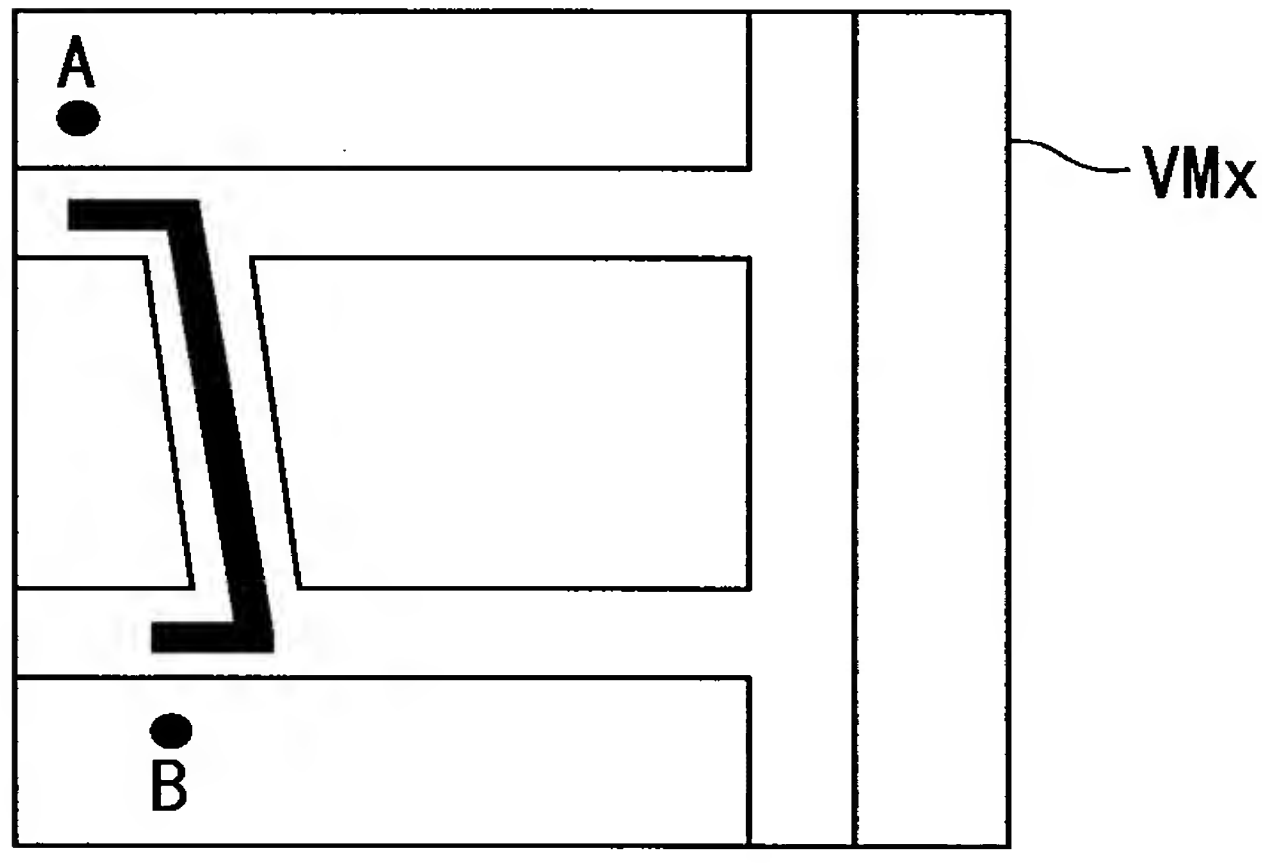

FIG.15A

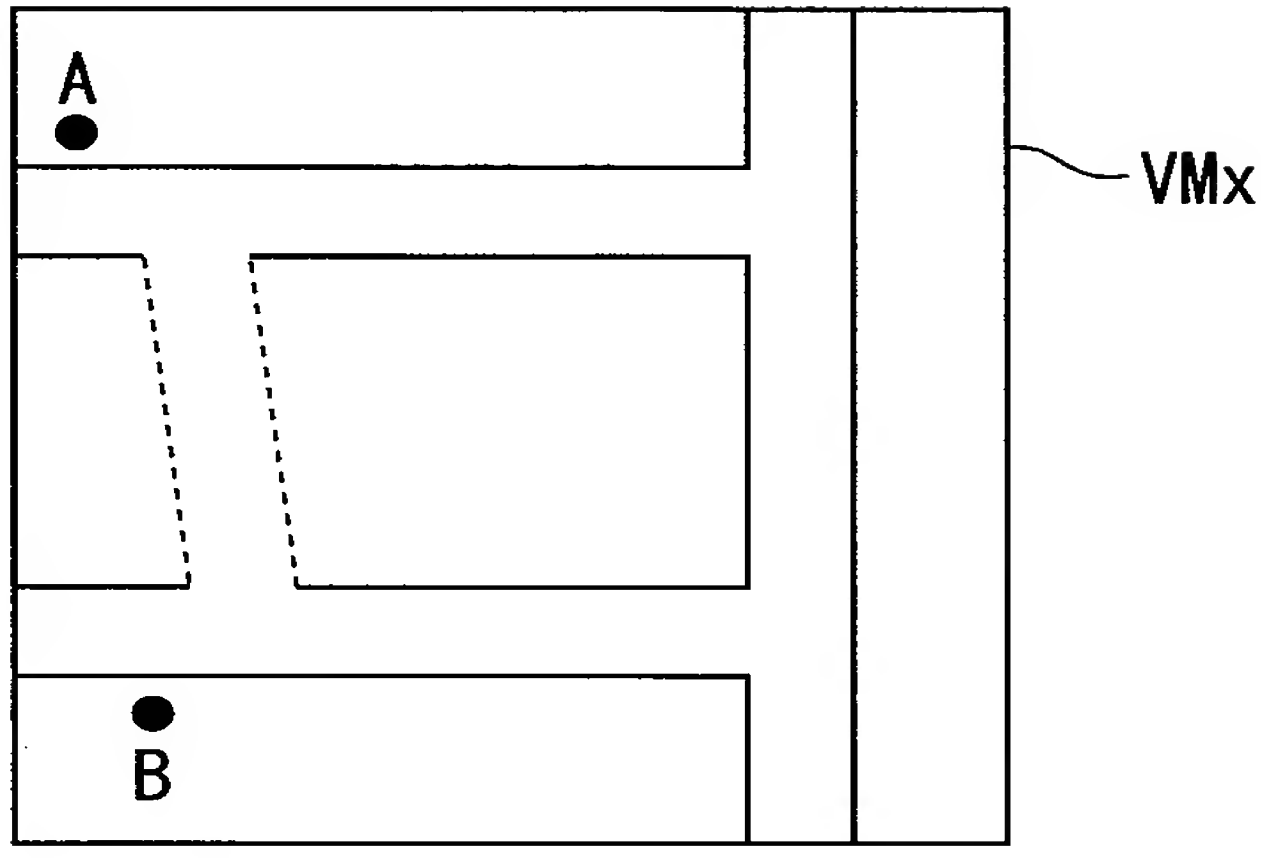

FIG.15B

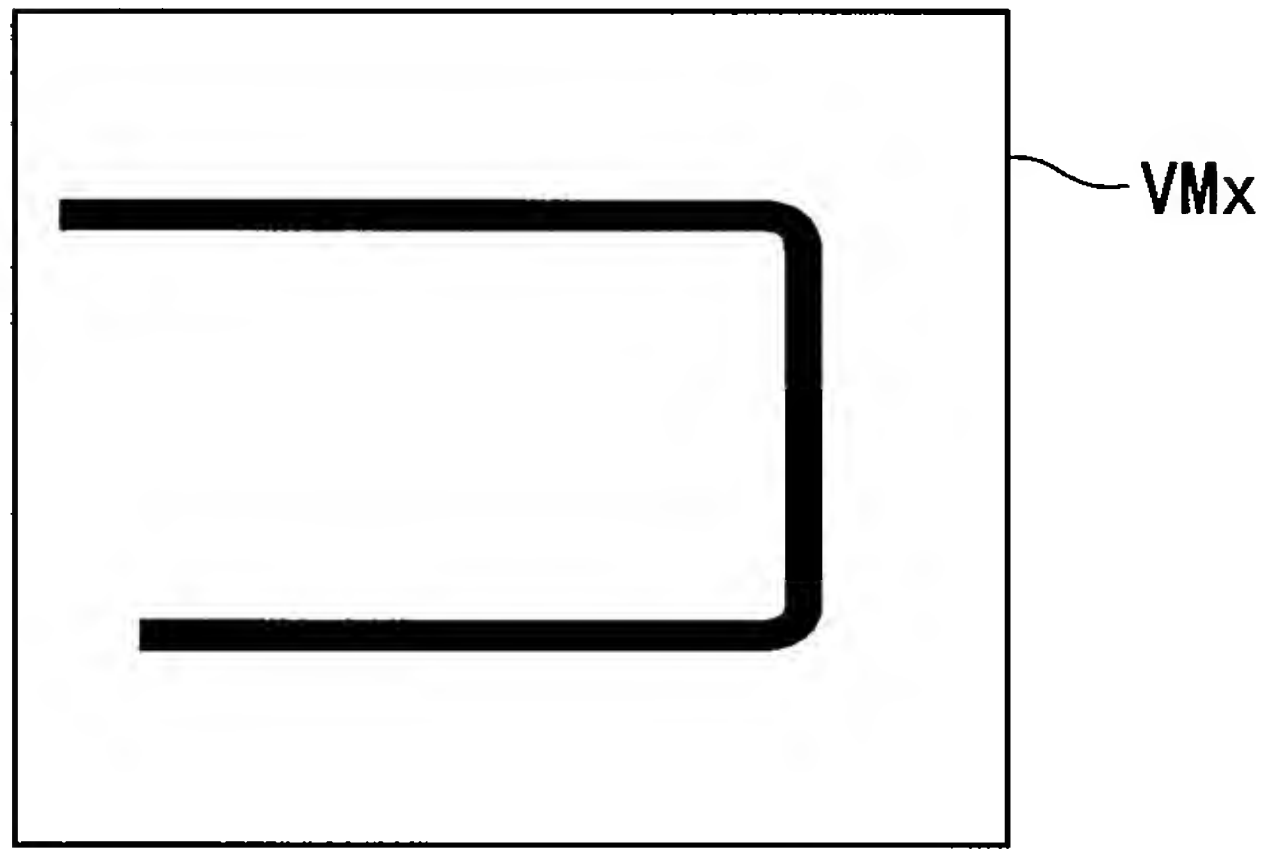
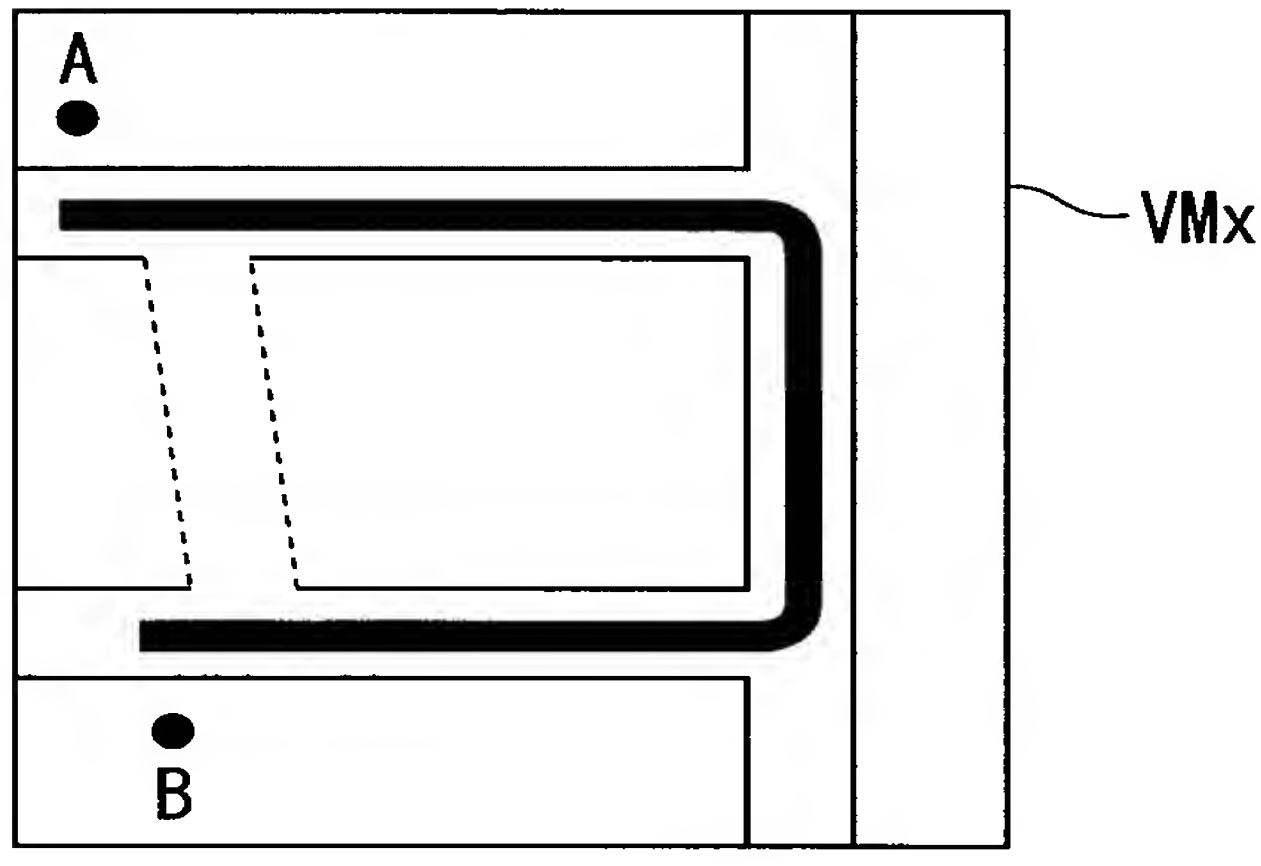
FIG.15C